DELPHI

FACILITY INVESTIGATIVE REPORT

APPENDIX A SECTION 6

CONT. SOIL REMEDIATION CLOSURE REPORT

2-84

4.0 DISCUSSION

As demonstrated by analytical data, the excavation program successfully removed soil with concentrations greater than the target cleanup goal of 1,000 mg/kg. The only exceptions were in a utility trench located along the southern edge of the Northwest Field and within the access driveway area at the southern entrance to the Northwest Field. The conditions at each area and the basis for which full remediation was not achievable are discussed below.

Utility Trench

As indicated on Plate II, numerous active and inactive underground utilities transect the southern portion of the Northwest Field. Two preliminary samples (ENV-1 and ENV-3), collected prior to excavation activities, indicated total lead concentrations greater than 1,000 mg/kg at a depth of 18 inches bgs (Plate I; Exhibit B). These two samples were inadvertently collected from backfill material within an active (live) electrical utility trench. Confirmation samples collected on either side of the trench contained total lead concentrations less than the target cleanup goal of 1,000 mg/kg for total lead (Plate II). Therefore, the two preliminary soil samples, ENV-1 and ENV-3, represent an isolated condition and do not warrant further investigation or remediation.

Access Driveway

Soil within the southern access driveway to the Northwest Field was excavated to a depth of 24 inches bgs (Plate II). One soil sample, CS-A4W-1-24, collected at 24 inches bgs, contained 1,100 mg/kg of total lead. A sample collected about 12 inches deeper than the excavation depth (36 inches bgs), represented by sample CS-A4-2-36, contained 940 mg/kg. Excavation deeper than 24 inches bgs was not possible in this location, due to the presence of the railroad spur and an adjacent drum storage building. Since the area could not be excavated deeper than 24 inches, and the total lead concentrations fell to concentrations less than the target cleanup goal of 1,000 mg/kg within one foot deeper, no further investigation or remedial action is warranted in this area.



5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on preliminary analytical data and upon confirmation sample analytical data, mitigation of the Northwest Field has been successfully completed in accordance with the criteria set forth in the approved RAP. Accordingly, ENV America recommends that the OCHCA grant "no further action" status to Delphi-E, as related to lead-impacted soil within the Northwest Field.



6.0 LIMITATIONS AND PROFESSIONAL CERTIFICATION

This report is intended for use by Delphi-E for the evaluation and remediation of lead-impacted soil as it pertains to the subject site. The professional services provided have been performed in accordance with practices generally accepted by other scientists and engineers practicing under similar conditions. No other warranty, either express or implied, is made. As with all environmental projects, there is no guarantee that the completed scope of work has necessarily identified all of the sources or locations of environmental impairments, if any.

The following ENV America professionals were responsible for all work associated with this project within the purview of the Registered Geologist and Geophysicist Act of the California Code of Regulations.

E OF CALLED

Daniel J. Gifford, R.G., C.E.G., C.HG. Senior Project Manager

E. FERRI ESAMARU No. 4069

E. Essi Esmaili, Ph.D., R.G., C.HG. Principal

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7.0 REFERENCES CITED

Dames & Moore, October 10, 1989, "Evaluation of Remedial Action Alternatives," Delco Remy Site, Northwest Field Area.

ENV America Incorporated, March 16, 1998, "Remedial Action Plan," Delphi Energy & Engine Management System Facility, Northwest Field.

ENV America Incorporated, August 12, 1998, "Project Status Report," Delphi Energy & Engine Management System Facility, Northwest Field.



TABLES

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYSES LEAD SOIL REMEDIATION - NORTHWEST FIELD Delphi Energy & Engine Management Systems Facility Anaheim, California

ENV America Project No. DEL-01-T002.102 (Concentrations in milligrams per kilogram - mg/kg)

ENV

			AMERICA
Sample ID.	Sample Depth (inches bgs)	Detected Lead Concentration	Remarks
CS1-12	12	4.9	•
CS1-18	18	4.7	-
CS2-12	12	4.0	-
CS2-18	18	7.7	-
CS-A7E-6	6	370	<u>-</u> .
CS-A5E-6	6	470	
CS-A4W-1-12	12	12,000	soil removed
CS-A4E-1-12	12	14	-
CS-A3-1-12	12	7.6	-
CS-A3-1-18	18	5.3	•
CS-A6-1-6	6	170	-
CS-A7W-1-6	6	100	•
CS-A5W-1-6	6	190	-
CS-A4E-1-6	6	13,000	soil removed
CS-A4W-1-18	18	3,100	soil removed
CS-A4W-1-24	24	1,100	-
CS-A4W-2-36	36	940	-
CS-A4E-2-24	24	180	-
CS-A4E-2-36	36	5.6	-
CS-A7E-2-6	6	550	-
CS-A7W-2-6	6	100	•
CS-A5W-7-6	6	790	-
CS-A5W-5-6	. 6	700	-
CS-A5W-8-6	6	180	•
CS-A5W-6-6	6	140	-
CS-A5W-4-6	6	190	•
CS-A5W-3-6	6	200	-
CS-A3-2-6	6	290	-
CS-A5W-2-6	6	480	-
CS-A3-3-6	6	1,600	soil removed
CS-A3-4-6	6	52	-
CS-A1-3-6	6	1,900	soil removed
CS-A1-4-6	6	11	•

QA/QC: Y DATE: 415 44
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TABLE 1

SUMMARY OF SOIL SAMPLE ANALYSES LEAD SOIL REMEDIATION - NORTHWEST FIELD Delphi Energy & Engine Management Systems Facility

Anaheim, California

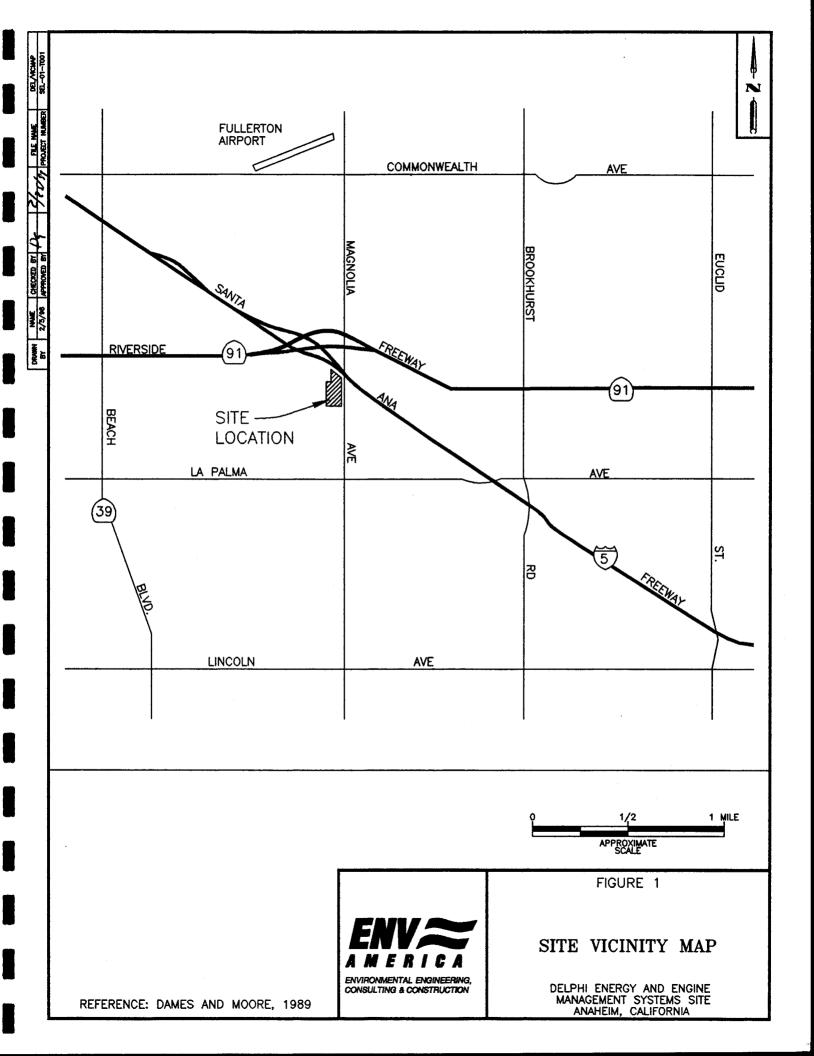
ENV America Project No. DEL-01-T002.102 (Concentrations in milligrams per kilogram - mg/kg)

ENV≈

Sample ID.	Sample Depth (inches bgs)	Detected Lead Concentration	Remarks
CS-A1-2-6	6	1,400	soil removed
CS-A1-1-6	6	22	•
CS-A4E-3-6	6	3,200	soil removed
CS-A4E-3-12	12	13	-
CS-A3-3-12	12	3.2	-
CS-A1-3-12	12	4.0	-
CS-A1-2-12	12	680	-
CS7-1-6	6	11	-
CS56-1-6	6	2.0	•
CS56-2-6	6	2.3	-
CS34-1-6	6	3.6	•
CS34-2-6	6	4.9	-
CS124-1-6	6	2.4	•
CS124-2-6	6	2.4	•
CSS-1-6	6	97	•
CSS-2-6	6	2.7	-
CSN-1-6	6	66	-
CSN-2-6	6	54	-
CSW-1-6	6	110	-
CSW-2-6	6	42	•

bgs = below ground surface CS = confirmation sample = no remark

DATE: F:Envdocs\prj\Delphi\NWfield\Delphi-soilsamples **FIGURES**



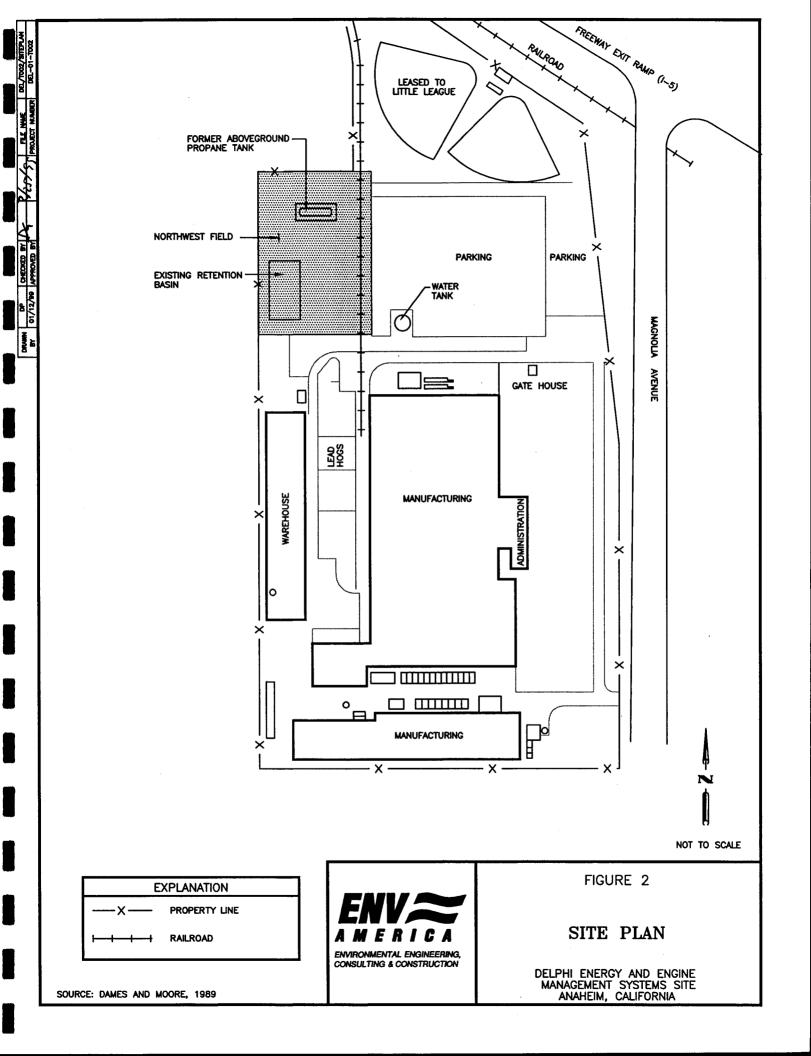


PLATE I PRELIMINARY SOIL SAMPLE LOCATION MAP

PLATE II CONFIRMATION SOIL SAMPLE LOCATION MAP

EXHIBIT A

PERTINENT DATA, DAMES & MOORE STUDY

TABLE 1 TOTAL AND SOLUBLE LEAD CONCENTRATIONS IN BACKGROUND SOIL SAMPLES

SAMPLE ID	SAMPLE DEPTH (ft)	SOLUBLE LEAD IN CONCENTRATION (mg/l)	TOTAL LEAD CONCENTRATION (mg/kg)	PERCENT EXTRACTED BY WET ANALYSIS
NF-1	0-0.5	4.2	54	78
NF-2	0-0.5	11	130	85
NF-3	0-0.5	72.	690	100
NF-4	0-0.5	5.3	69	77
NF-5	0-0.5	2.7	32	84
NF-6	0-0.5	2.3	25	92
NF-7	0-0.5	7.1	100	71
NF-8	0-0.5	2.3	34	68
NF-9	0-0.5	4.6	49	94
NF-10	0-0.5	11.	120	92
NF-11	0-0.5	5.7	57	100
NF-12	0-0.5	13.	140	93
NF-13	0-0.5	4.9	53	92
NF-14	0-0.5	14.	150	93
Blank		ND (0.02)	ND (0.5)	

TABLE 2 (continued)

Sample Location & Designation	Depth bgs(ft)	T-Pb(mg/kg)	<u>S-Pb(mg/1)</u>	рН
A15(e)	2		0.47	
A16(e)	4		1.26	
A17(e)	4		0.52	
A18(e)	5		0.85	
A19(e)	3		ND<0.1	
A20(e)	3		0.58	
A21(e)	3		0.46	
A22(e)	3		0.55	
RS1(e)	3.5		0.27	
RS2(e)	3		0.16	

KEY:

(a)bgs= below ground surface
(b)T-Pb= Total Lead Concentration

(c)S-Pb= Soluble Lead Concentration

(d) pH = -log [hydrogen ion concentration]

(e)=These samples were collected with Mr. David Dixon from the Orange County Health Care Agency present during the sampling activities.

NA= Not Analyzed

ND<0.1= Not Detected, Detection limit is 0.1/mg/1

18EE.51-51.1

TABLE 2 (continued)

Sample				
Location & Designation	Depth bgs(ft)	T-Pb(mg/kg)	S-Pb(mg/1)	рН
NW3-C	1.5-2		2.08	
NW3-D	2-2.5	2700	ND<0.1	0 15
NW4-A	05	2700 3.8	333 NA	8.15
NW4-B NW5-A	1-1.5 05	120	10	
NW5-B	1-1.5	138	10	
NW6-A	05	110	11	
NW6-B	1-1.5	4.0	NA	
NW7-A	05	480	30	
NW7-B	1-1.5	5.0	30	
NW8-A	05	54	3.6	8.25
NW8-B	1-1.5	20	3.0	0.20
NW9-A	1.5-2	20	ND<0.1	
NW9-B	2-2.5		ND<0.1	
NW10-A	1.5-2		0.27	
NW10-B	2-2.5		ND<0.1	
NW11-A	1.5-2		4.10	
NW11-B	2-2.5		ND<0.1	
NW12-A	1.5-2		1.11	
NW12-B	2-2.5		ND<0.1	
NW13-A	1.5-2		1.60	
NW13-B	2-2.5		ND<0.1	
NW14-A	1.5-2		ND<0.1	
NW14-B	2-2.5		ND<0.1	
NW15-A	1.5-2		ND<0.1	
NW15-B	2-2.5		ND<0.1	
NW16-A	1.5-2		5.41	
NW16-A TD1	2-2.5		0.53 0.15	
TD2	4 3		15.2	
TD3	3		50.6	
BERM1	1		10.4	
BERM2	i		2.23	
BERM3	1 <		3.36	
BERM4			2.70	
A1	1 2 2 2 2		ND<0.1	"
A2	2		6.87	
A3	<u></u>		0.30	
A4	2		3.37	
A8(e)	2.5		26.8	
A9(e)	2.5		1.23	
A10(e)	2.5		1.95	•
A11(e)	2		32.1	
A12(e)	2		1.60	
A13(e)	2.5		0.33	
A14(e)	2		0.59	

TABLE 2 ANALYTICAL RESULTS OF NORTHWEST FIELD SOIL SAMPLES

	Sample Location & Designation	Depth bgs(ft)(a) <u>T-Pb(mg/kg)</u> (b)	<u>S-Pb(mg/1</u>)(c)	_pH(d)
	DD1-A	0-1		21	8.75
	DD1-B	1-2		16	
	DD1-C	2-2.5		39.6	
	DD1-D	2.5-3		11.6	
	DD1-E	3-3.5		0.31	
	DD2-A	0-1		24	
	DD2-B	1-2		18 0.25	
	DD2-C	2-2.5		0.25	
	DD2-D	2.5-3 0-1		225	7.05
	DD3-A DD3-B	1-2	•	2.2	7.00
	DD4-A	0-1		10	
	DD4-B	1-2		1.3	
	DD5-A	0-1		103	8.00
	DD5-B	1-2		7.5	
	DD5-C	2-2.5		2.55	
	DD5-D	2.5-3	•	0.27	
	DD6-A	0-1		55	8.20
	DD6-B	1-2		2.6	
	DD7-A	0-1		30	
	DD7-B	1-2		8.0	
	DD7-C	2-2.5		0.24	
	DD7-D	2.5-3		0.14	7 60
	DD8-A	0-1		30	7.60
	DD8-B	1-2		2.6 0.8	
	DD9-A	0-1 1-2		0.4	
	DD9-B DD10-A	1-2 1-2		12.1	
:	DD10-A DD10-B	2-2.5		0.18	
	DD11-A	1-2		0.82	
	DD11-B	2-2.5		0.12	•
	DD12-A	1-2		0.25	
	DD12-B	2-2.5		0.15	
	DD13-A	1-2		0.21	
	DD13-B	2-2.5		0.98	
	DD14-A	1-2		1.69	
	DD14-B	2-2.5		0.28	
	NW1-A	05	9850	1130	8.45
	NW1-B	1-1.5	152	14	
	NW2-A	05	150	14	•
	NW2-B	1-1.5	128	8.2	
	NW2-C	1.5-2		ND<0.1	
	NW2-D	2-2.5	120	0.10 14	8.85
	NW3-A	05 1-1 5	213 ⁻	31	0.03
	NW3-B	1-1.5	£12.	21	

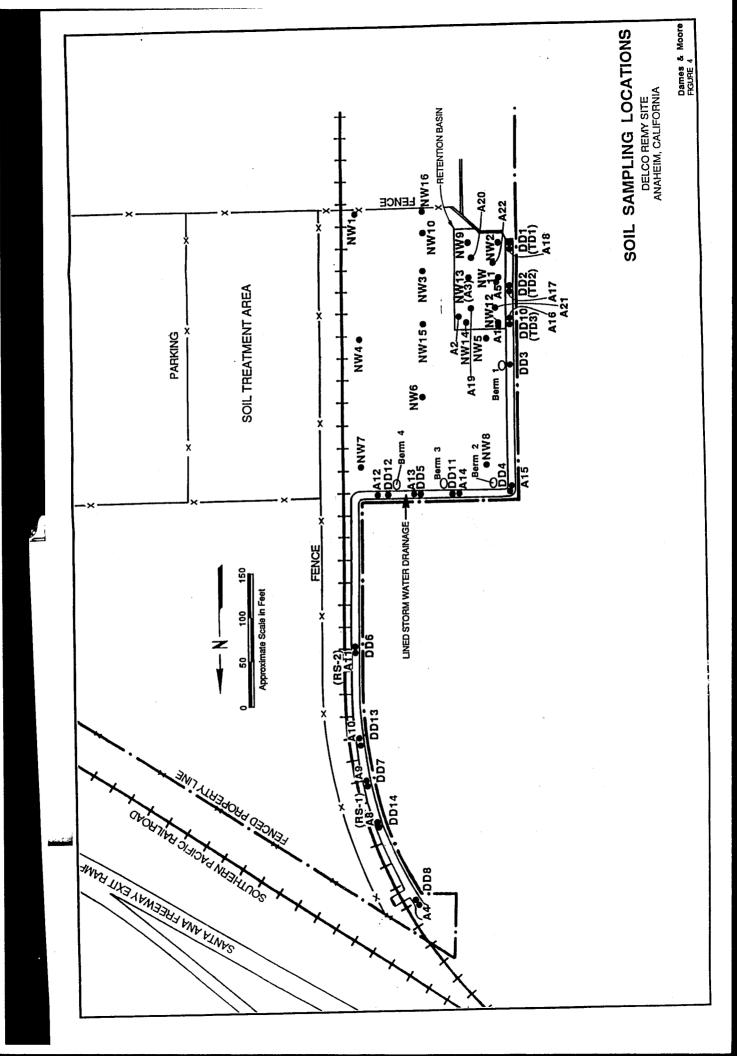


EXHIBIT B PRELIMINARY SAMPLING RESULTS

EXHIBIT B

PRELIMINARY SAMPLING RESULTS Summary of Soil Sample Analyses for Lead Northwest Field

Delphi Energy & Engine Management Systems 1201 North Magnolia Avenue

Anaheim, California
ENV America Project No. DEL-01-T002.101

(Concentrations in milligrams per kilogram - mg/kg)

Sample Number	Sample Depth (Inches)	Detected Lead Concentration
ENV-1-6	6	6,300
ENV-1-12	12	2,600
ENV-1-18	18	1,400
ENV-2-6	6	620
ENV-3-6	6	1,500
ENV-3-12	12	2,000
ENV-3-18	18	1,100
ENV-4-6	6	920
ENV-4-12	12	1,800
ENV-5-2	2	970
ENV-5-6	6	260
ENV-6-6	6	64
ENV-7-2	2	2,800
ENV-7-6	6	300
ENV-8-2	2	7,200
ENV-8-6	6	710
ENV-9-6	6	13
ENV-10-6	6	30
ENV-11-6	- 6	97
ENV-12-6	6	85
ENV-13-6	6	90
ENV-14-6	6	4.6
ENV-15-2	2	3,300
ENV-15-6	6	200
ENV-16-2	2	1,600
ENV-16-6	6	300





EXHIBIT B (Continued)

PRELIMINARY SAMPLING RESULTS Summary of Soil Sample Analyses for Lead

Northwest Field

Delphi Energy & Engine Management Systems 1201 North Magnolia Avenue

Anaheim, California

ENV America Project No. Del-01-T002.101

(Concentrations in milligrams per kilogram - mg/kg)

Sample Number	Sample Depth (Inches)	Detected Lead Concentration
ENV-17-2	2	480
ENV-17-6	, 6	170
ENV-18-6	6	91
ENV-19-6	6	74
ENV-20-6	6	22
ENV-21-6	6	120
ENV-22-2	2	1,200
ENV-22-6	6	490
ENV-23-6	6	64
ENV-24-6	6	60
ENV-25-2	2	940
ENV-26-2	2	2,500
ENV-27-2	2	1,200
ENV-28-2	2	4,300
ENV-29-2	2	4,900
ENV-30-2	2	2,200
ENV-31-2	2	65,000
ENV-32-2	2	4,100
ENV-33-2	2	2,300
ENV-34-2	2	8,000
ENV-35-2	2	1,100
ENV-36-2	2	800
ENV-37-2	2	660
ENV-38-2	2	840
ENV-39-2	2	300
ENV-40-2	2	380
ENV-41-2	2	630



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EXHIBIT B (Continued)

PRELIMINARY SAMPLING RESULTS Summary of Soil Sample Analyses for Lead Northwest Field

Delphi Energy & Engine Management Systems 1201 North Magnolia Avenue

Anaheim, California
ENV America Project No. Del-01-T002.101

(Concentrations in milligrams per kilogram - mg/kg)

Sample Number	Sample Depth (Inches)	Detected Lead Concentration
ENV-42-2	2	1,200
ENV-43-2	· 2	3,700
ENV-44-2	2	2,300
ENV-45-2	2	2,400
ENV-46-2	2	6,000
ENV-47-2	2	6,300
ENV-48-2	2	6,100
ENV-51-2	2	13,000
ENV-52-2	2	850
ENV-55-2	2	3,200
ENV-58-2	2	420
ENV-59-2	2	1,900
ENV-61-2	2	1,100
ENV-64-2	2	650
ENV-65-2	2	73
ENV-67-2	2	750
ENV-66-2	2	2,300
ENV-69-2	2	420
ENV-72-2	2	820
ENV-73-2	2	830
ENV-74-2	2	76
ENV-75-2	2	410
ENV-76-2	2	930
ENV-79-2	2	89
ENV-80-2	2	400
ENV-81-2	2	1,900
ENV-85-2	2	39





EXHIBIT B (Continued)

PRELIMINARY SAMPLING RESULTS

Summary of Soil Sample Analyses for Lead

Northwest Field

Delphi Energy & Engine Management Systems 1201 North Magnolia Avenue

Anaheim, California

ENV America Project No. Del-01-T002.101

(Concentrations in milligrams per kilogram - mg/kg)

Sample Number	Sample Depth (Inches)	Detected Lead Concentration
ENV-86-2	2	270
ENV-87-2	. 2	310
ENV-88-2	2	190
ENV-92-2	2	59
ENV-95-2	2	70
ENV-96-2	2	900
ENV-97-2	2	380
ENV-98-2	2	17
ENV-99-2	2	59
ENV-100-2	2	120
ENV-101-2	2	53
ENV-102-2	2	1,300
ENV-103-2	2	1,700
ENV-104-2	2	500



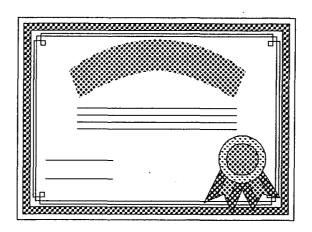
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EXHIBIT C

LABORATORY REPORTS FOR CONFIRMATION SAMPLES AND STOCKPILE SAMPLES



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil,

Laboratory Reference #: EAI 10412

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/28/98

Received:

08/28/98

Analyzed:

08/31/98

Reported: 08/31/98

TOTAL LEAD (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080249	SP1/2/4 W	7,100
98080250	SP1/2/4 E	2,900
98080251	SP3/4 W	680
98080252	SP3/4 E	2,700
98080253	SP5/6 S	1,200
98080254	SP5/6 N	310
98080255	SP7 S	200
98080256	SP7 N	370
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani Laboratory Director



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/31/98

Laboratory Sample No: 98080194 Laboratory Reference No: EAI 10412

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.11	5.0	4.26	4.09	83	80	4

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

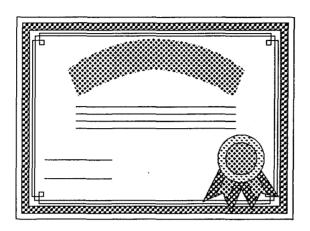
ORANGE COAST ANALYTICAL

MARK NOORANI Laboratory Director

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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

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IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

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ENV America

ATTN: Mr. Essi Esmailli 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/25/98

Received:

08/25/98

Analyzed:

08/25/98

Reported:

08/25/98

TOTAL LEAD (EPA 6010)

Sample Description: Soil,

Laboratory Reference #: EAI 10398

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080170	CS1-12	4.9
98080171	CS1-18	4.7
98080172	CS2-12	4.0
98080173	CS2-18	7.7
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani Laboratory Director



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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/25/98

Laboratory Sample No : 98080170 Laboratory Reference No : EAI 10398

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.098	5.0	4.88	4.80	96	94	2

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

MARK NOORANI Laboratory Director DATE 8/18/18 JE LOF L

PROJECT INFORMATION PROJECT NUMBER: DEL-O1-TGO2 PROJECT NUMBER: DEL-O1-TGO2 PROJECT NUMBER: DEL-O1-TGO2 PROJECT NUMBER: DEL-O1-TGO2 INFORMATION SAMPLE RECEIPT TOTAL NUMBER OF CONTAINERS CHAIN OF CUSTODY SEALS Y/N/NA INTACT? Y/N/NA RECEIVED GOOD COND,/COLD LAB NUMBER: SAMPLE DISPOSAL INSTRUCTIONS: SAMPLE DISPOSAL INSTRUCTIONS: RELINQUISHED BY: RECEIVED B SAMPLE DISPOSAL INSTRUCTIONS: PARILE NUMBER: PARILE NUMBER: PROJECT NUMBER: SAMPLE DISPOSAL INSTRUCTIONS: PRAILE NUMBER: PROJECT NUMBER: SAMPLE DISPOSAL INSTRUCTIONS: PRAILE NUMBER: PROJECT NUMBER: SAMPLE DISPOSAL INSTRUCTIONS: PRAILE SAMPLE DISPOSAL INSTRUCTIONS: PRAILE SAMPLE DISPOSAL INSTRUCTIONS: PRAILE SAMPLE SA	
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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmailli 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/25/98

Received:

08/25/98

Analyzed:

08/26/98

Reported:

08/26/98

Laboratory Reference #: EAI 10399

TOTAL LEAD (EPA 6010)

Sample Description: Soil,

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080174	CS-A7E-6	370
98080175	CS-A5E-6	470
98080176	CS-A4W-1-12	12,000
98080177	CS-A4E-1-12	14
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani Laboratory Director





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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/26/98

Laboratory Sample No: 98080174 Laboratory Reference No: EAI 10399

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	7.49	5.0	11.9	12.2	88	94	2

Definition of Terms:

R1

Results Of First Analysis

SP

Spike Concentration Added to Sample

MS

Matrix Spike Results

MSD

Matrix Spike Duplicate Results

PR1

Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2

Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD

Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

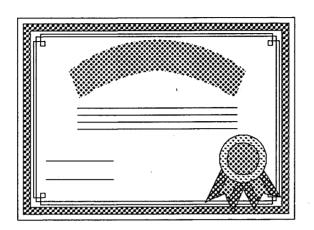
ORANGE COAST ANALYTICAL

MARK NOORANI Laboratory Director DATE STATISE LE LOFL

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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Sample Description: Soil,

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/26/98

Received:

08/26/98

Analyzed:

08/26/98

Reported:

08/26/98

Laboratory Reference #: EAI 10400

TOTAL LEAD (EPA 6010)

LABORATORY CLIENT
SAMPLE SAMPLE
NUMBER NUMBER

SAMPLE RESULTS (mg/kg)

98080178

CS-A3-1-12

7.6

98080179

CS-A3-1-18

5.3

Detection Limit

1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani

Laboratory Director





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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/26/98

Laboratory Sample No: 98080174 Laboratory Reference No: EAI 10400

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	7.49	5.0	11.9	12.2	88	94	2

Definition of Terms:

R1

Results Of First Analysis

SP

Spike Concentration Added to Sample

MS

Matrix Spike Results

MSD

Matrix Spike Duplicate Results

PR1

Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2

Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD

Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

PROJECT MANAGER: Essi			•		1L (H, SO,)/100g	ဗ္ဂ	4 oz (HCL)/50g	509	2X40ml (HCL)/50g	8	1L/50g 2X10ml (HCL)/100g	Ì		'							PROJECT INFORMATION
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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmailli 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/26/98

Received:

08/27/98

Analyzed:

08/27/98

Reported:

08/27/98

TOTAL LEAD (EPA 6010)

Sample Description: Soil,

Laboratory Reference #: EAI 10406

LABORATORY CLIENT SAMPLE
SAMPLE SAMPLE RESULTS
NUMBER NUMBER (mg/kg)

98080211	SPS-1	880
98080212	SPN-1	320
98080213	SPW-1	500
98080214	CS-A6-1-6	170
98080215	CS-A7W-1-6	100
98080216	CS-A5W-1-6	190
98080217	CS-A4E-1-6	13,000
98080218	√ CS-A4W-1-18	3,100
98080219	CSA4W-1-24	1,100

Detection Limit		1.0	

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical



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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/27/98

Laboratory Sample No: 98080211 Laboratory Reference No: EAI 10406

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	17.6	10.0	26.3	26.4	87	88	0

Definition of Terms:

R1

Results Of First Analysis

SP

Spike Concentration Added to Sample

MS

Matrix Spike Results

MSD

Matrix Spike Duplicate Results

PR1

Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2

Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD

Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

DATE 8/26/12 JELOF

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ORANGE COAST ANALYTICAL, INC.

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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Sample Description: Soil,

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/27/98

Received:

08/27/98

Analyzed:

08/28/98

Reported:

08/28/98

Laboratory Reference #: EAI 10409

TOTAL LEAD (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080222	CS-A4W-2-36	940
98080223	CS-A4E-2-24	180
98080224	CSA4E-2-36	5.6
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/28/98

Laboratory Sample No: 98080224 Laboratory Reference No: EAI 10409

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.11	5.0	4.75	4.68	93	91	1

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

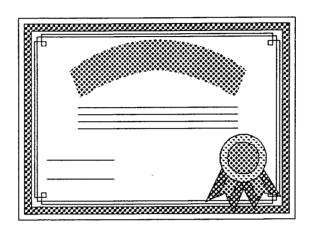
ORANGE COAST ANALYTICAL

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ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT
PLEASE FEEL FREE TO CONTACT US.



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil,

Laboratory Reference #: EAI 10410

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled: 08/28/98

Received: 08/28/98 **Analyzed:** 08/28/98

Reported: 08/28/98

TOTAL LEAD (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080225	CS-A7E-2-6	550
98080226	CS-A7W-2-6	100
98080227	CS-A5W-7-6	790
98080228	CS-A5W-5-6	700
98080229	CS-A5W-8-6	180
98080230	CS-A5W-6-6	140
98080231	CS-A5W-4-6	190
98080232	CS-A5W-3-6	200
98080233	CS-A3-2-6	290
98080234	CS-A5W-2-6	480
98080235	CS-A3-3-6	1,600
98080236	CS-A3-4-6	52
98080237	CS-A1-3-6	1,900
98080238	CS-A1-4-6	11
98080239	CS-A1-2-6	1,400
98080240	CS-A1-1-6	22
98080241	CS-A4E-3-6	3,200
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical



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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/28/98

Laboratory Sample No : 98080240 Laboratory Reference No : EAI 10410

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
•	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.44	10	9.70	9.69	93	93	0

Definition of Terms:

R1

Results Of First Analysis

SP

Spike Concentration Added to Sample

MS

Matrix Spike Results

MSD

Matrix Spike Duplicate Results

PR1

Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2

Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD

Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL



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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/28/98

Laboratory Sample No: 98080225 Laboratory Reference No: EAI 10410

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Lead	11	10	20.4	20.5	94	95	0 .

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

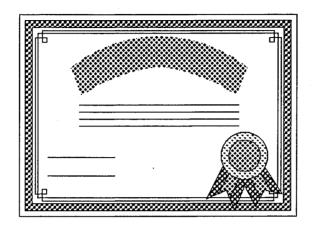
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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 SEP 0 4 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT
PLEASE FEEL FREE TO CONTACT US.



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

08/31/98

Received:

08/31/98

Analyzed:

09/02/98

Reported:

09/03/98

TOTAL LEAD (EPA 6010)

Sample Description: Soil,

Laboratory Reference #: EAI 10416

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080266	CS-A4E-3-12	13
98080267	CS-A3-3-12	3.2
98080268	CS-A1-3-12	4.0
98080269	CS-A1-2-12	680

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Detection Limit		1.0
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Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical





3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 09/02/98

Laboratory Sample No: M98085343 Laboratory Reference No: EAI 10416

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.035	5.0	4.37	• 4.47	87	89	2

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

11/13/98

Received: Analyzed:

11/13/98 11/16/98

Reported:

11/16/98

Laboratory Reference #: EAI 10556

TOTAL LEAD (EPA 6010)

Sample Description: Soil,

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98110067	CS124-1-6	2.4
98110068	CS124-2-6	2.4
98110069	CS56-1-6	2.0
98110070	CS56-2-6	2.3
98110071	CS7-1-6	11
98110072	CSS-1-6	97
98110073	CSS-2-6	2.7
98110074	CSW-1-6	110
98110075	CSW-2-6	42
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical



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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 11/16/98

Laboratory Sample No: 98110067 Laboratory Reference No: EAI 10556

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.048	5.00	4.74	4.74	94	94	0

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

	Lab Job No:	of _	1
REQUIRED TAT:			

CUSTOMER INFORMATION COMPANY: ENV America SEND REPORT TO ESSI ESMAILI ADDRESS: 16 Technology Dr. #154 Truly CA 92618 PHONE 949 453-5121 FAX: 29292 SAMPLE ID	PROJI NUME LOCA ADDR SAMP	EECT NAME: DEL-CATION: 1201 ESS: Anch LED BY: CAMPLE DATE		### (""" "" "" "" "" " " " " " " " " "						REMARKS/PRECAUTIONS				
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ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Sample Description: Soil,

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

11/30/98

Received:

12/01/98

Analyzed:

12/02/98

Reported:

12/02/98

Laboratory Reference #: EAI 10584

TOTAL LEAD (EPA 6010)

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98120003	CS34-2-6	4.9
98120004	CS34-1-6	3.6
98120005	CSN-1-6	66
98120006	CSN-2-6	54
Detection Limit		1.0

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani

Laboratory Director



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 12/02/98

Laboratory Sample No: 98120002 Laboratory Reference No: EAI 10584

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.18	5.00	4.94	4.92	95	95	0

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532 Tustin, CA 92780 (714) 832-0064, Fax (714) 832-0067 4620 E. Elwood, Suite 4 Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

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3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmailli 16 Technology Dr. Suite 154

Irvine, CA 92614

Detection Limit

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.101

Sampled:

06/18/98

Received:

06/18/98

Analyzed:

08/14/98

Laboratory Reference #: EAI 10375

Reported:

08/14/98

1.0

TOTAL LEAD (EPA 6010)

Sample Description: Soil,

LABORATORY SAMPLE NUMBER	CLIENT SAMPLE NUMBER	SAMPLE RESULTS (mg/kg)
98080079	ENV-SP-A	27
98080080	ENV-SP-B	51
98080081	ENV-SP-C	170
98080082	ENV-SP-D	37

Analyte reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical



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QC DATA REPORT

Analysis: Lead (EPA 6010)

Date of Analysis: 08/14/98

Laboratory Sample No : M98085105 Laboratory Reference No : EAI 10375

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Lead	0.20	5.0	5.04	. 5.12	97	98	2

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

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8	COMPANY: ENV AKERICA INC ADDRESS: 16 TECHNOLOGY ORNE RWAFE, CALFORNI PHONE: (714) 453-9191	COMPANY: ADDRESS:	3	33	12														य हि	70	! . §
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ENV AMERICA INC ORANGE COAST ANALYTI Ø 001

PAGE 02

EXHIBIT D

LABORATORY REPORTS FOR SOIL STOCKPILE DISPOSAL PROFILING

44

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Sample Description: Soil, Composite A1-A8

Laboratory Sample #: 98090102 Laboratory Reference #: EAI 10438 Received: Analyzed: 09/10/98 09/11/98

Reported: 09

09/16/98

VOLATILE ORGANIC COMPOUNDS BY GC/MS ON A TCLP EXTRACT (EPA 1311/8260)

ANALYTE	DETECTION LIMIT μg/l	SAMPLE RESULTS µg/l
Benzene	2.0	N.D.
Carbon Tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroform	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
2-Butanone	5.0	N.D.
Tetrachloroethene	2.0	N.D.
Trichloroethene	2.0	N.D.
Vinyl Chloride	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Recoveries %

Orange Coast Analytical

Mark Noorani Laboratory Director Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

105 99

#

ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Sample Description: Soil, Composite B1-B8

Laboratory Sample #: 98090103 Laboratory Reference #: EAI 10438 Received: Analyzed: 09/10/98 09/11/98

Reported:

09/16/98

VOLATILE ORGANIC COMPOUNDS BY GC/MS ON A TCLP EXTRACT (EPA 1311/8260)

ANALYTE	DETECTION LIMIT μg/l	SAMPLE RESULTS μg/l
Benzene	2.0	Ñ.D.
Carbon Tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroform	2.0	N.D.
1,2-Dichloroethane	2.0	N.Đ.
1,1-Dichloroethene	2.0	N.D.
2-Butanone	5.0	N.D.
Tetrachloroethene	2.0	N.D.
Trichloroethene	2.0	N.D.
Vinyl Chloride	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Recoveries %

Orange Coast Analytical

Mark Noorani Laboratory Director Dibromofluoromethane Toluene-d8 108 103

4-Bromofluorobenzene

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Sample Description: Soil, Composite C1-C8

Laboratory Sample #: 98090104 Laboratory Reference #: EAI 10438 Received: Analyzed: 09/10/98 09/15/98

Reported:

09/16/98

VOLATILE ORGANIC COMPOUNDS BY GC/MS ON A TCLP EXTRACT (EPA 1311/8260)

ANALYTE	DETECTION LIMIT μg/l	SAMPLE RESULTS μg/l
Benzene	2.0	N.D.
Carbon Tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroform	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
2-Butanone	5.0	N.D.
Tetrachloroethene	2.0	N.D.
Trichloroethene	2.0	N.D.
Vinyl Chloride	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Recoveries %

Orange Coast Analytical

Mark Noorani

Laboratory Director

Dibromofluoromethane Toluene-d8 100

4-Bromofluorobenzene

100



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Sample Description: Soil, Composite D1-D8
Laboratory Sample #: 98090105

Laboratory Sample #: 98090105 Laboratory Reference #: EAI 10438 Received: Analyzed: 09/10/98 09/15/98

Reported:

09/16/98

VOLATILE ORGANIC COMPOUNDS BY GC/MS ON A TCLP EXTRACT (EPA 1311/8260)

ANALYTE	DETECTION LIMIT μg/l	SAMPLE RESULTS µg/l
Benzene	2.0	N.D.
Carbon Tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroform	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
2-Butanone	5.0	N.D.
Tetrachloroethene	2.0	N.D.
Trichloroethene	2.0	N.D.
Vinyl Chloride	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Surrogate Recoveries %

Orange Coast Analytical

not Com

Mark Noorani Laboratory Director Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

93 100



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Sample Description: Soil, Composite B1-B8

Laboratory Sample #: 98090103 Laboratory Reference #: EAI 10438 Received:

09/10/98

Analyzed: Reported:

09/11/98 09/16/98

SEMI VOI ATILE ORGANICS BY GC/MS ON A TCLP EXTRACT (FPA 1311/8270)

ANALYTE	CAS	DETECTION LIMIT	SAMPLE RESULTS
	NUMBER	μg/l	μg/l
o-Cresol	95-48-7	100	N.D.
m,p-Cresol	108-39-4,106-44-5	100	N.D.
1,4-Dichlorobenzene	106-46-7	100	N.D.
2,4-Dinitrotoluene	121-14-2	100	N.D.
Hexachlorobenzene	118-74-1	100	N.D.
Hexachlorobutadiene	87-68-3	100	N.D.
Hexachloroethane	67-72-1	100	N.D.
Nitrobenzene	98-95-3	100	N.D.
Pentachlorophenol	87-86-5	100	N.D.
Pyridine .	110-86-1	100	N.D.
2,4,5-trichlorophenol	95-95-4	100	N.D.
2,4,6-Trichlorophenol	88-06-2	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Laboratory Director

Mark Noorani



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

> Sampled: Received:

09/10/98

09/10/98

Laboratory Sample #: 98090104

Sample Description: Soil, Composite C1-C8

Analyzed:

09/11/98

Laboratory Reference #: EAI 10438

Reported:

09/16/98

SEMI VOLATUE OPGANICS BY GC/MS ON A TCLP EYTRACT (FPA 1311/8270)

ANALYTE	CAS	DETECTION LIMIT	SAMPLE RESULTS
	NUMBER	μg/l	μg/l
o-Cresol	95-48-7	100	N.D.
m,p-Cresol	108-39-4,106-44-5	100	N.D.
1,4-Dichlorobenzene	106-46-7	100	N.D.
2,4-Dinitrotoluene	121-14-2	100	N.D.
Hexachlorobenzene	118-74-1	100	N.D.
Hexachlorobutadiene	87-68-3	100	N.D.
Hexachloroethane	67-72-1	100	N.D.
Nitrobenzene	98-95-3	100	N.D.
Pentachlorophenol	87-86-5	100	N.D.
Pyridine	110-86-1	100	N.D.
2,4,5-trichlorophenol	95-95-4	100	N.D.
2,4,6-Trichlorophenol	88-06-2	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Sample Description: Soil, Composite D1-D8

Laboratory Sample #: 98090105 Laboratory Reference #: EAI 10438 Received:

09/10/98

Analyzed: Reported: 09/11/98 09/16/98

SEMI VOLATILE ORGANICS BY GC/MS ON A TCL P EXTRACT (FPA 1311/8270)

ANALYTE	CAS	DETECTION LIMIT	SAMPLE RESULTS
	NUMBER	μg/l	μg/l
o-Cresol	95-48-7	100	N.D.
m,p-Cresol	108-39-4,106-44-5	100	N.D.
1,4-Dichlorobenzene	106-46-7	100	N.D.
2,4-Dinitrotoluene	121-14-2	100	N.D.
Hexachlorobenzene	118-74-1	100	N.D.
Hexachlorobutadiene	87-68-3	100	N.D.
Hexachloroethane	67-72-1	100	N.D.
Nitrobenzene	98-95-3	100	N.D.
Pentachlorophenol	87-86-5	100	N.D.
Pyridine	110-86-1	100	N.D.
2,4,5-trichlorophenol	95-95-4	100	N.D.
2,4,6-Trichlorophenol	88-06-2	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite A1-A8

Laboratory Sample #: 98090102 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: Reported:

09/14,15/98 09/16/98

TCLP (EPA 1311) - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/l	SAMPLE RESULTS mg/l
Arsenic	6010	1.0	N.D.
Barium	6010	0.1	0.28
Cadmium	6010	0.1	N.D.
Chromium	6010	0.1	N.D.
Copper	6010	0.1	N.D.
Lead	6010	1.0	5.4
Mercury	7471	0.01	N.D.
Nickel	6010	0.1	N.D.
Selenium	6010	1.0	N.D.
Silver	6010	0.1	N.D.
Zinc	6010	0.1	0.16

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani



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ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite B1-B8

Laboratory Sample #: 98090103 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed:

09/14,15/98

Reported:

09/16/98

TCLP (EPA 1311) - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/l	SAMPLE RESULTS mg/l
Arsenic	6010	1.0	N.D.
Barium	6010	0.1	0.32
Cadmium	6010	0.1	N.D.
Chromium	6010	0.1	N.D.
Copper	6010	0.1	N.D.
Lead	6010	1.0	5.6
Mercury	7 4 71	0.01	N.D.
Nickel	6010	0.1	N.D.
Selenium	6010	1.0	N.D.
Silver	6010	0.1	N.D.
Zinc	6010	0.1	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani Laboratory Director



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Laboratory Sample #: 98090104 Laboratory Reference #: EAI 10438

Sample Description: Soil, Composite C1-C8

Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: Reported:

09/14,15/98 09/16/98

TCLP (EPA 1311) - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/l	SAMPLE RESULTS mg/l
Arsenic	6010	1.0	N.D.
Barium	6010	0.1	0.72
Cadmium	6010	0.1	N.D.
Chromium	6010	0.1	N.D.
Copper	6010	0.1	N.D
Lead	6010	1.0	N.D.
Mercury	7471	0.01	N.D.
Nickel	6010	0.1	N.D.
Selenium	6010	1.0	N.D.
Silver	6010	0.1	N.D.
Zinc	6010	0.1	0.20

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani Laboratory Director

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite D1-D8

Laboratory Sample #: 98090105 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: Reported:

09/14,15/98 09/16/98

TCLP (EPA 1311) - METALS

ANALYTE	EPA METHOD	DETECTION LIMIT mg/l	SAMPLE RESULTS mg/l
Arsenic	6010	1.0	N.D.
Barium	6010	0.1	0.59
Cadmium	6010	0.1	N.D.
Chromium	6010	0.1	N.D.
Copper	6010	0.1	N.D.
Lead	6010	1.0	5.2
Mercury	7471	0.01	N.D.
Nickel	6010	0.1	N.D.
Selenium	6010	1.0	N.D.
Silver	6010	0.1	N.D.
Zinc	6010	0.1	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite A1-A8

Laboratory Sample #: 98090102 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: 09/11,14,15/98

Reported:

09/16/98

ANALYTE	DETECTION LIMIT	> 60°C 7.4 N.D. mg/kg
Flashpoint	26-60°C	> 60°C
Corrosivity		7.4
Reactive Cyanide	0.2	N.D. mg/kg
Reactive Sulfide	0.5	N.D. mg/kg

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite B1-B8

Laboratory Sample #: 98090103 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: 09/11,14,15/98

Reported:

09/16/98

ANALYTE	DETECTION LIMIT	SAMPLE RESULTS
Flashpoint	26-60°C	> 60°C
Corrosivity		7.5
Reactive Cyanide	0.2	N.D. mg/kg
Reactive Sulfide	0.5	N.D. mg/kg

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite C1-C8

Laboratory Sample #: 98090104 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: 09/11,14,15/98

Reported:

09/16/98

ANALYTE	DETECTION LIMIT	SAMPLE RESULTS
Flashpoint	26-60°C	> 60°C
Corrosivity		7.7
Reactive Cyanide	0.2	N.D. mg/kg
Reactive Sulfide	0.5	N.D. mg/kg

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

ENV America

ATTN: Mr. Essi Esmaili 16 Technology Dr. Suite 154

Irvine, CA 92614

Sample Description: Soil, Composite D1-D8

Laboratory Sample #: 98090105 Laboratory Reference #: EAI 10438 Client Project ID: Delphi-NW Field Client Project #: DEL-01-T002.102

Sampled:

09/10/98

Received:

09/10/98

Analyzed: 09/11,14,15/98

Reported:

09/16/98

ANALYTE	DETECTION LIMIT	SAMPLE RESULTS
Flashpoint	26-60°C	> 60°C
Corrosivity		7.7
Reactive Cyanide	0.2	N.D. mg/kg
Reactive Sulfide	0.5	N.D. mg/kg

Analytes reported as N.D. were not present above the stated limit of detection.

Orange Coast Analytical

Mark Noorani



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QC DATA REPORT

Analysis: Semi-Volatile Organics by GC/MS (EPA 8270)

Date of Analysis: 09/11/98 Laboratory Sample No: OCA 100 Laboratory Reference No: EAI 10438

Analyte	R1 (ng)	SP (ng)	MS (ng)	MSD (ng)	PR1 %	PR2 %	RPD %
1,4-Dichlorobenzene	0.0	50	43 -	40	86	80	7
n-Nitroso-di-n-propylamine	0.0	50	46	43	92	86	7
1,2,4-Trichlorobenzene	0.0	50	43	41	86	82	5
Acenaphthene	0.0	50	36	35	72	70	3
Pyrene	0.0	50	36	35	72	70	3
Pentachlorophenol	0.0	100	81	75	81	75	8
4-Chloro-3-Methylphenol	0.0	100	66	61	66	61	8
2-Chlorophenol	0.0	100	75	73	75	73	3
Phenol	0.0	100	43	41	43	41	5

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL



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QC DATA REPORT

Analysis: Volatile Organics by GC/MS (EPA 8260)

Date of Analysis: 09/11/98

Laboratory Sample No: 98090102 Laboratory Reference No: EAI 10438

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
Benzene	0.0	20	19	. 20	95	100	5
1,1-Dichloroethene	0.0	20	16	19	80	95	17
Trichloroethene	0.0	20	20	20	100	100	0
Toluene	0.0	20	18	20	90	100	11
Chlorobenzene	0.0	20	19	20	95	100	5

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL



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QC DATA REPORT

Analysis: Metals

Date of Analysis: 09/14,15/98

Laboratory Sample No: 98090102, OCA 100

Laboratory Reference No: EAI 10438

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Arsenic	0.0	10	9.80	9.9	98	99	1
Barium	0.28	1.0	1.23	1.24	95	96	1
Cadmium	0.0	1.0	0.97	0.99	97	99	2
Chromium	0.0	1.0	0.98	0.98	98	98	0
Copper	0.0	1.0	1.14	1.04	114	104	9
Lead	5.4	5.0	10.0	10.1	92	94	1
Mercury	0.000	0.020	0.018	0.019	90	95	5
Nickel	0.0	1.0	1.03	1.02	103	102	1
Selenium	0.0	10	9.84	9.95	98	100	1
Silver	0.0	1.0	1.01	1.02	101	102	1
Zinc	0.16	1.0	1.14	1.15	98	99	1

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100
PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

QC DATA REPORT

Analysis: Inorganics

Date of Analysis: 09/14,15/98 Laboratory Sample No: 98090103 Laboratory Reference No: EAI 10438

Analyte	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Cyanide	0.0	0.50	0.56	0.57	112	114	2
Sulifde	0.0	1.0	0.95	0.90	95	90	5

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL